

# SPRINT-2

<b>Team ID</b>	<b>PNT2022TMID53713</b>
<b>Project Name</b>	<b>Gas Leakage Monitoring and Alerting System</b>

# CREATE DEVICE IN THE IOT WATSON PLATFORM:

IBM Watson IoT Platform interface showing the 'Browse Devices' page. The page includes a sidebar with navigation icons, a top navigation bar with tabs (Browse, Action, Device Types, Interfaces), and an 'Add Device' button. The main content area displays a table of devices with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. Two devices are listed, both with ID 1234 and status 'Disconnected'. The first device is an ESP32 added on Nov 11, 2022. The second device is an 'iot\_device' added on Nov 5, 2022. The 'Device Simulator' toggle is turned on. A message at the bottom right states '0 Simulations running'. The bottom of the browser window shows a WhatsApp image placeholder.

Search by Device ID

Device Simulator ☒

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
> <input type="checkbox"/>	1234	Disconnected	ESP32	Device	Nov 11, 2022 1:14 PM	
> <input type="checkbox"/>	1234	Disconnected	iot_device	Device	Nov 5, 2022 9:04 PM	

Items per page 50 | 1-2 of 2 items

0 Simulations running

WhatsApp Image....jpeg

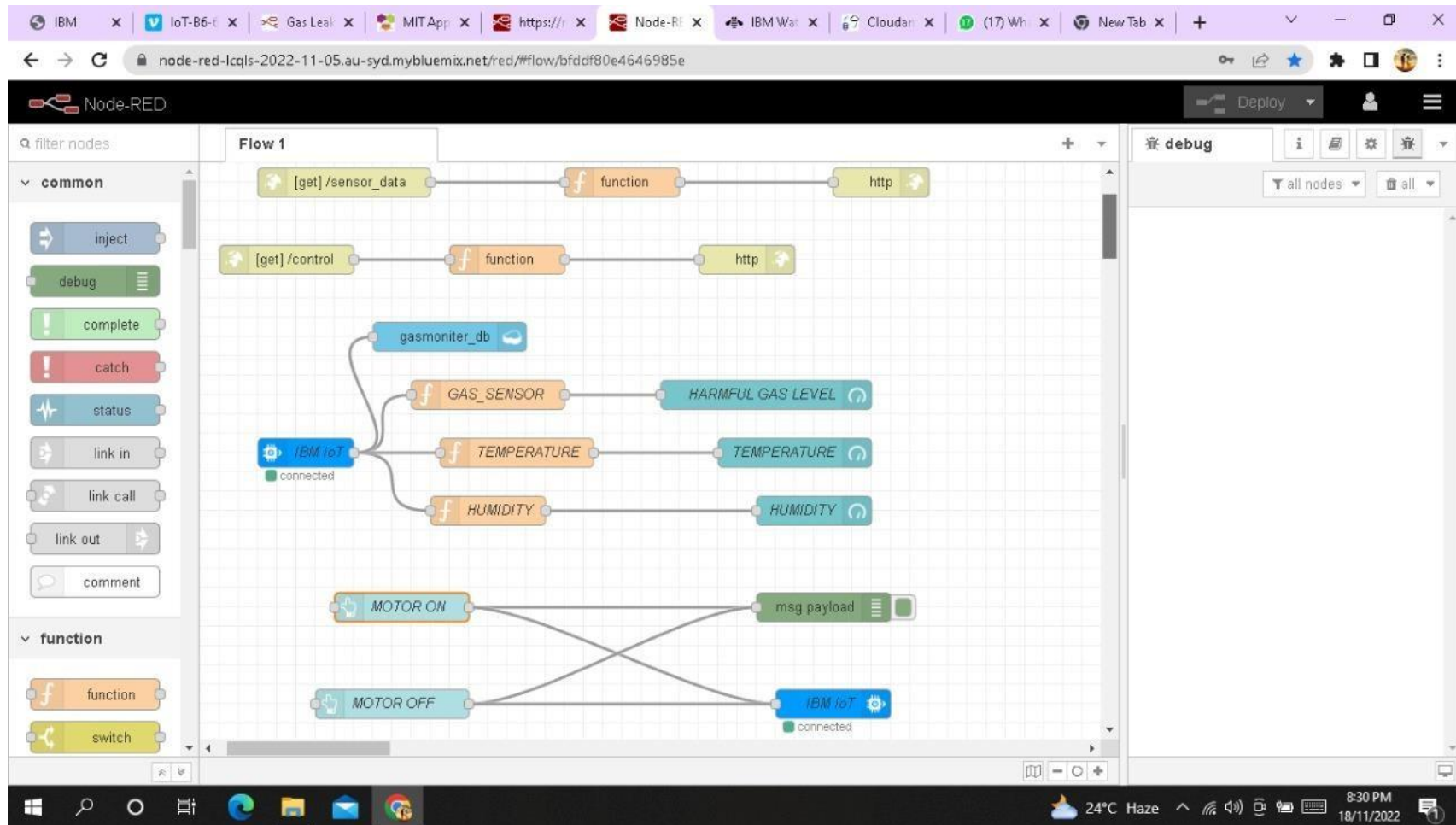
The screenshot shows the AWS IoT console interface. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. On the right, there is an 'Add Device' button. The main content area displays details for a device with ID '1234', which is 'Connected' and of type 'iot\_device'. The device was last seen on 'Nov 5, 2022 9:04 PM'. Below this, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is selected, showing a message: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this message is a table with the following data:

Event	Value	Format	Last Received
status	{"temperature":49,"humidity":30,"harmful_gas"...	json	a few seconds ago
status	{"temperature":93,"humidity":95,"harmful_gas"...	json	a few seconds ago
status	{"temperature":59,"humidity":59,"harmful_gas"...	json	a few seconds ago
status	{"temperature":-15,"humidity":98,"harmful_gas"...	json	a few seconds ago
status	{"temperature":93,"humidity":79,"harmful_gas"...	json	a few seconds ago

At the bottom left, there is a pagination control showing 'Items per page 50' and '1-2 of 2 items'. At the bottom right, there is a status bar indicating '0 Simulations running'.

## OUTPUT:

# WORKFLOW FLOW FOR IOT SCENERIOS UNSING LOCAL NODE RED:



Node-RED

filter nodes

Flow 1 Flow 3

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch

[get] /sensor\_data

[get] /control

gasmonitor\_db

IBM IoT connected

GAS\_SENSOR

TEMPERATURE

HUMIDITY

Edit function node

Delete Cancel Done

Properties

Name GAS\_SENSOR

Setup On Start On Message On Stop

```
1 msg.payload=msg.payload.harmful_gas
2 global.set('h',msg.payload)
3 return msg;
```

info

Search flows

Flows

- Flow 1
- Flow 2
- Flow 3
- Flow 4
- Flow 5

Subflows

Global Configuration Nodes

GAS\_SENSOR

Node "6fbb4965bbaec42f"

Type function

show more

Export the selected nodes, or the current tab with `ctrl-e`

Enabled

https://node-red-icqls-2022-11-05.au-syd.mybluemix.net/red/#editor-tab-properties